Material Safety Data Sheet

Liquid Ozone

Substantially Similar to Form UN No. 1496

MANUFACTURER

Hi-Tech Industries
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SECTION I PRODUCT IDENTIFICATION

Product Name: HTL001 Liquid Ozone
Product Use: Odor Eliminator

SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Materials	CAS #	OSHA PEL	TLV
(Z)-Butenedioic acid	110-16-7	Not listed	Not established
Hydroxidooxidochlorine	7758-19-2	Not listed	Not established

SECTION III PHYSICAL DATA

Decomposes below boiling point at 135°C
Melting point: 131°C
Relative density (water = 1): 1.59
Solubility in water, g/100 ml at 25°C: 78
Physical Description: White granulated crystals. Odor: Chlorine scent

SECTION IV FIRE & EXPLOSION HAZARD DATA

Not combustible but enhances combustion of other substances. Gives off irritating or toxic fumes (or gases) in a fire.
AVOID contact with combustibles and reducing agents. Risk of fire and explosion on contact with reducing agents and organic matter.
In case of fire: keep drums and storage containers cool by spraying with water.
Special Fire Fighting Procedure: Firefighters should wear NIOSH approved positive pressure self contained breathing apparatus as in all chemical fires.

SECTION V REACTIVITY DATA

Stability: Stable
Conditions to Avoid: See below.
Materials to Avoid: Strong acids and alkalis, oxidizers, selected amines. Forms combustible and /or explosive mixtures with air and small amount of water or moisture.
Hazardous Decomposition or other by-products: Produces Chlorine Dioxide gas.
Hazardous Polymerization: Will Not Occur

SECTION VI HEALTH HAZARD DATA

Possible Routes of Entry: Inhalation -YES **Ingestion** - YES **Skin** - YES
Inhalation: Inhalation is irritating to the mucous membrane and upper respiratory tract. May cause coughing, sore throat, shortness of breath.
Skin Causes irritation to skin. Symptoms include redness, itching, and pain. May be absorbed through the skin. Wet skin may exacerbate skin exposure.
Eyes Causes severe eye irritation with redness and pain. May cause burns. May cause conjunctivitis or corneal damage.
Ingestion Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. May cause mild burning of mouth, throat, and stomach.
Acute Health Hazard: May cause dizziness or narcosis in high vapor concentrations. Skin and eye irritation, redness, burning. Irritation if exposed to mucous membranes
Chronic Health Hazard: Abnormalities of kidney function with protein in the urine may develop from chronic exposure. Prolonged exposure to gas vapors may cause death.

SECTION VII SYMPTOMS OF EXPOSURE

Seek medical attention for all over- exposures and/or persistent problems

Eye - Immediate burning.

Skin - Possible irritation, redness

Inhalation - Difficulty in breathing, coughing

Ingestion - Gastric distress, vomiting

Conditions Aggravated by Exposure: Overexposure may cause dizziness and loss of concentration

SECTION VIII FIRST AID

Skin: If irritation occurs cease using; wash with soap and water.

Eyes: Flush eyes continuously with water for 15 minutes. Seek immediate medical attention. Contact lenses should not be worn when working with this material.

Inhalation: Remove to fresh air. Administer oxygen if necessary.

Ingestion: Do not induce vomiting or give anything by mouth. Immediately contact physician, poison control center, or medical facility.

SECTION IX SPILL, LEAK, AND DISPOSAL INFORMATION

Spill Safety: Sweep spilled substance into sealable containers if possible. Carefully collect remainder, then remove to safe place. Do NOT absorb in saw-dust or other combustible absorbents: use non-reactive absorbent compound such as vermiculite to soak up material. Ventilate area. Eliminate all ignition sources.

Disposal Information: Dispose in a manner consistent with local, state and federal regulations. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

Storage & Handling: Store in a dry, cool place away from incompatible materials. Keep away from heat, sun light, sparks, or open flame. Store at temperatures below 120 F. Avoid prolonged breathing of vapors. Always use with adequate ventilation. Wash thoroughly after use. Do not get in eyes.

SECTION X SPECIAL PROTECTION INFORMATION

Respiratory Protection: P3 filter respirator for toxic particles. UN Hazard Class: 5.1. UN Pack Group: II

Ventilation: Local exhaust

Protective Equipment Required: Eye protection and gloves are highly advisable.

Work/Hygienic Practices: Do not smoke while using. Wash hands with soap and water after use. Concentrated vapors of this product are lighter than air and will evenly disperse through all areas. Avoid breathing of vapors. Keep out of reach of children. Reports have associated repeated and prolonged occupational overexposure to gasses with permanent respiratory damage. Intentional misuse by concentrating and inhaling this product may be harmful or fatal. If prior medical condition exists, consult a physician prior to product use.

Carcinogenicity: NTP –No, IARC –Yes, OSHA -No

This product has not been tested for carcinogenic effects. Some chemicals in this product may be identified by NTP, IARC, and or OSHA as carcinogenic, indicated above as “Yes”. No further information available.

SECTION XII ADDITIONAL INFORMATION

This information is furnished gratuitously, independent of any sale, and for your independent verification. Although we believe the data to be correct as of the date indicated, we make no representation as to its accuracy and such information may not be valid when product is used in any process or combined with other materials. NO REPRESENTATION(S), GUARANTEE(S), OR WARRANTY, either EXPRESSED, IMPLIED, or of any NATURE, is made with respect to the product or data provided.